

Modification of Guidance on Use of Airfield Pavement Markings

Briefing for the
House Armed Services Committee
Pursuant to House Report 114–537, page 378



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Congressional Requirement

Energy, Installations and Environment

House Report 114–537, page 378 requests the Secretary of Defense to provide a briefing:

"...that details the full extent of actions taken to modify specifications, technical letters, and other Department guidance on airfield markings; the remaining actions to be taken to update additional Secretary of Defense guidance; and the outline of the Department's methodology to ensure that determination of the category of retro-reflective beads used on airfields is determined on an installation-by-installation basis, based on local conditions and the life-cycle maintenance costs of the pavement markings."



Actions Taken to Modify Guidance

- June 2016: Air Force revised its technical guidance (ETL 97-18) to explicitly allow use of Type III beads
- August 2016:
 - DoD revised its Unified Facilities Guide Specification for airfield markings (UFGS 32 17 23) to include Type III beads and requirement for life cycle cost analysis
 - Air Force rescinded ETL 97-18 and ETL 04-02
 - DoD rescinded UFGS 32 17 24



Remaining Actions

- December 2016 (planned): Publish guidance in the form of a life cycle cost analysis (LCCA) template and methodology for bead selection on installation-specific basis
- Late 2017 (planned): Evaluate application of guidance and selection decisions with commands
- 2019 (planned): Obtain more comprehensive performance data for Type I and Type III glass beads from FAA-sponsored study, and revise LCCA template as warranted



Outline of Installation-level Methodology

Energy, Installations and Environment

The life-cycle cost analysis template will:

- Provide universal parameters for expected bead service life based on durability and reflectivity
 - Assumptions necessary until FAA study is completed
- Allow installation-provided input for:
 - Local costs for installed markings using Type I and III beads
 - Frequency of restriping due to snowplowing, rubber removal, and other causes
- Differentiate between types of pavement markings (e.g., centerlines, stop lines) and evaluate best solution for each



BACK-UP



Background

Source	Requirement	DoD Response
H. Rpt. 113-102 (May 2013)	Prepare a business case analysis for continuing to specify both Type I and Type III glass beads	(March 2014) Provided simplified life-cycle cost analysis with conclusion that Type I beads are sufficient and most cost-effective solution.
H. Rpt. 113-446 (May 2014)	Assess report from Sightline LLC on type III glass beads, and assess value associated with incorporating Type III beads into specifications	(March 2015) Provided detailed life-cycle cost analysis incorporating Sightline report information and assessment of its findings. Validated previous conclusion.
FY 2016 NDAA sec. 2851 (Dec 2015)	Modify specifications to allow Type III glass beads, and develop policy to ensure selection is on installation- specific basis considering life-cycle costs	(expected during 2016) Modified specifications to allow Type III beads, and guidance to implement its use.